

What is claimed is:

1. A method for recovering carbon dioxide comprising the steps of:

absorbing and removing carbon dioxide by a carbon dioxide absorbing solution from combustion exhaust gas of a boiler for generating steam for driving a high pressure turbine, an intermediate pressure turbine, and a low pressure turbine;

compressing the removed carbon dioxide by a compressor; driving a turbine for a compressor by some of exhaust steam of said high pressure turbine;

driving a turbine for auxiliary machinery by some of exhaust steam of said intermediate pressure turbine; and

heating and regenerating said carbon dioxide absorbing solution having absorbed carbon dioxide by exhaust steam of said turbine for compressor and said turbine for auxiliary machinery.

2. The method for recovering carbon dioxide according to claim 1, which further comprises a step of injecting said compressed carbon dioxide into an oil field, coal seam, or aquifer under pressure.

3. A system for recovering carbon dioxide comprising: a high pressure turbine, an intermediate pressure turbine, and a low pressure turbine;

a boiler for generating steam for driving said

turbines;

a carbon dioxide absorption tower filled with a carbon dioxide absorbing solution for absorbing and removing carbon dioxide from combustion exhaust gas of said boiler;

5 a regeneration tower for regenerating said carbon dioxide absorbing solution having absorbed carbon dioxide;

a compressor for compressing the removed carbon dioxide;

10 a turbine for compressor, which is driven by some of exhaust steam of said high pressure turbine;

a turbine for auxiliary machinery, which is driven by some of exhaust steam of said intermediate pressure turbine; and

15 a supply pipe for supplying exhaust steam of said turbine for compressor and said turbine for auxiliary machinery to a reboiler of said regeneration tower as a heating source.

4. The system for recovering carbon dioxide according to claim 3, which further comprises a discharge pipe for  
20 injecting said compressed carbon dioxide into an oil field, coal seam, or aquifer under pressure.